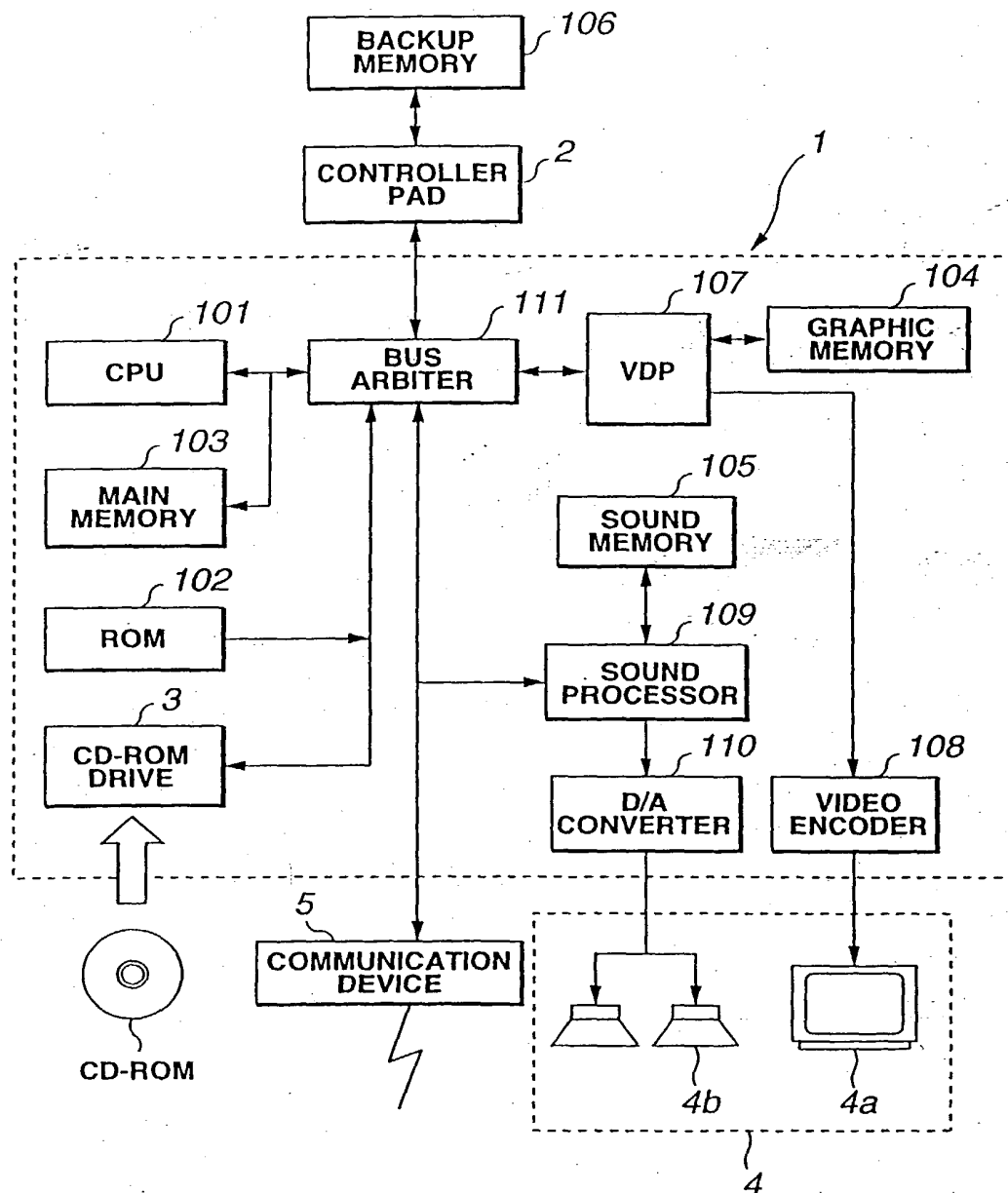


FIG.1





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FIG. 2

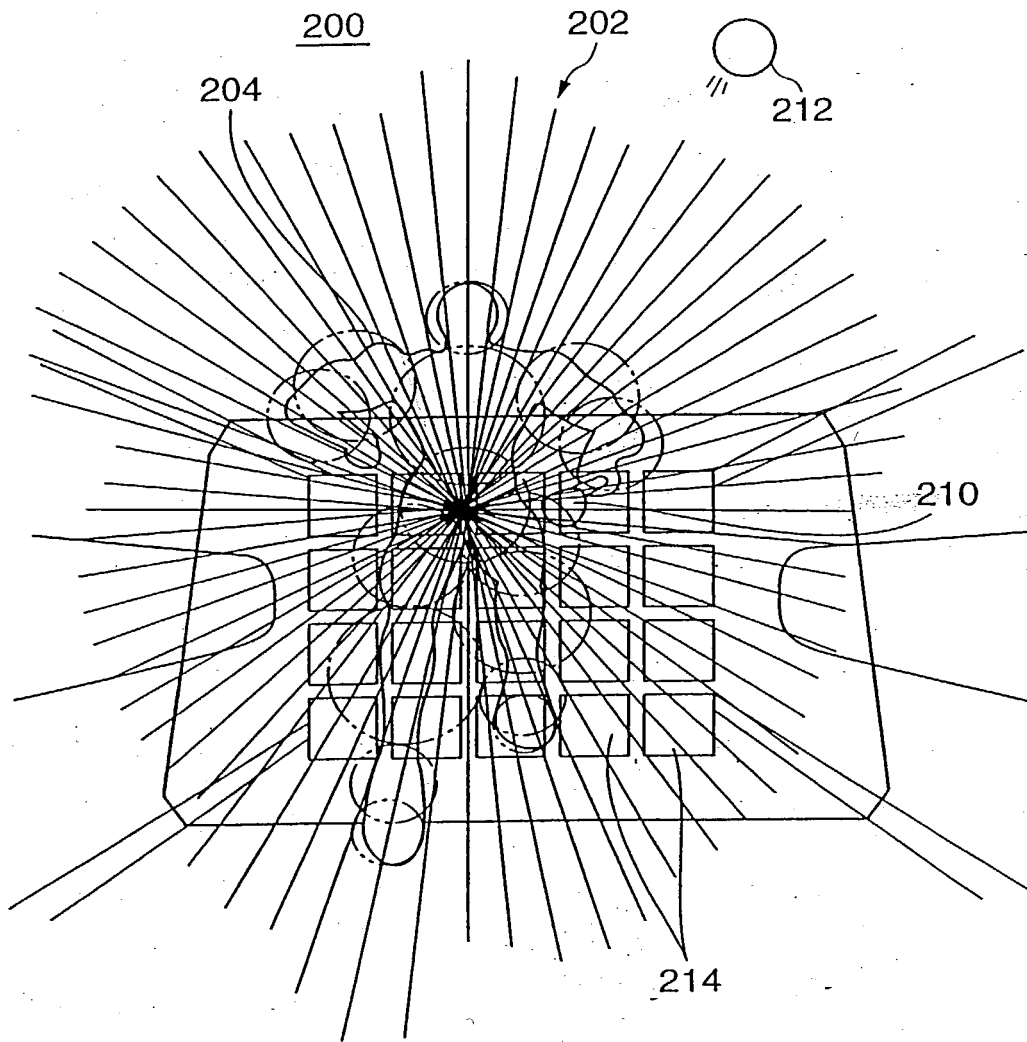


FIG. 3

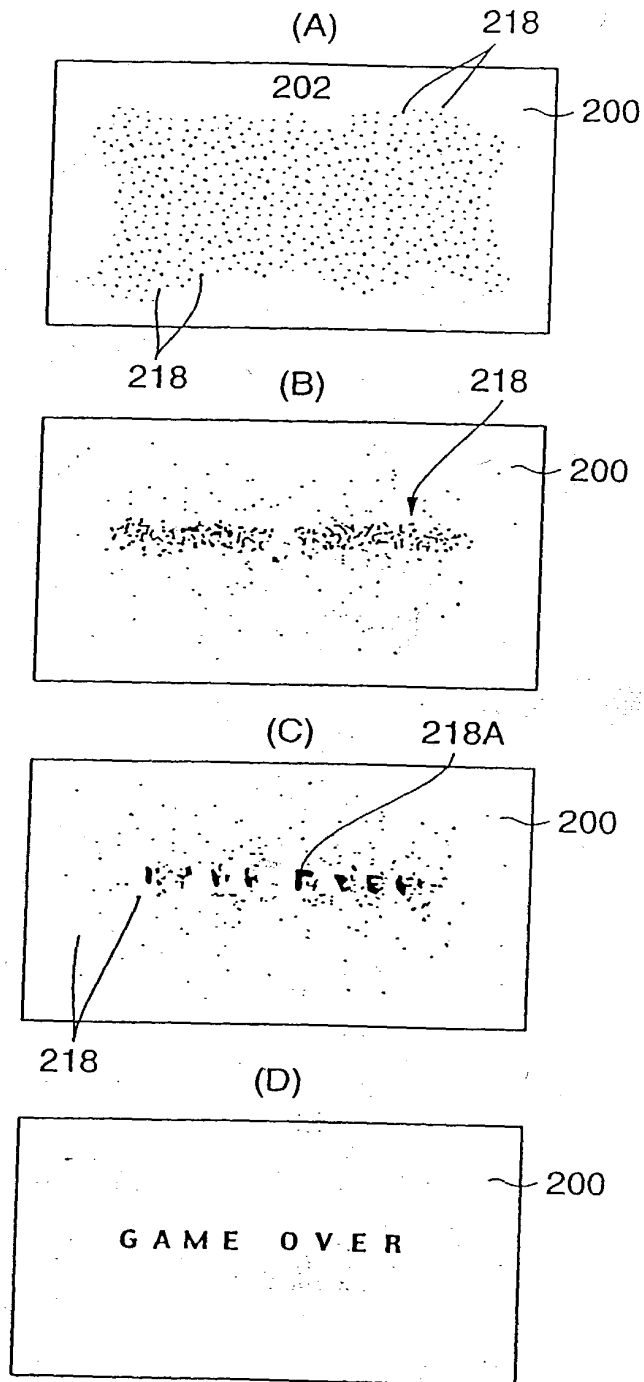
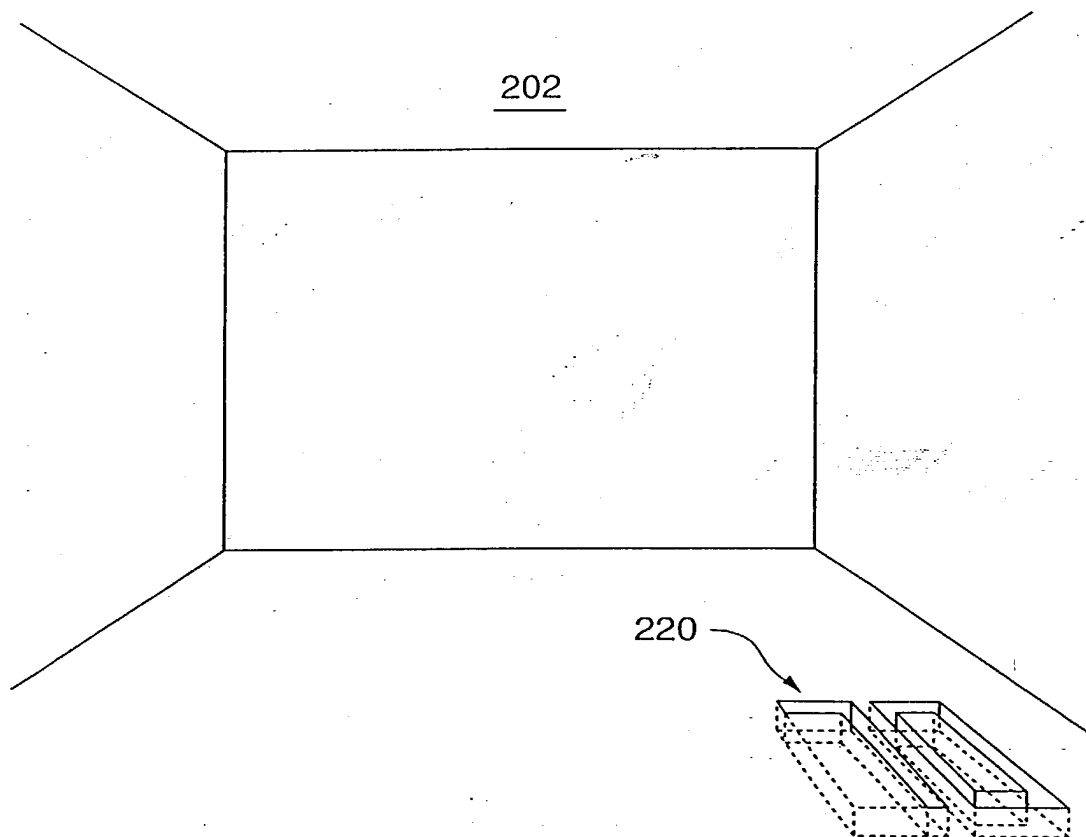


FIG. 4





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FIG. 5

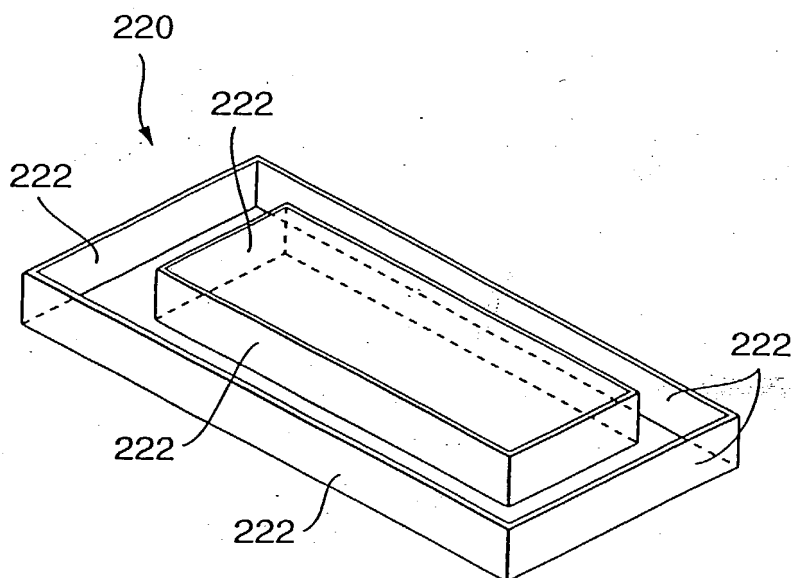
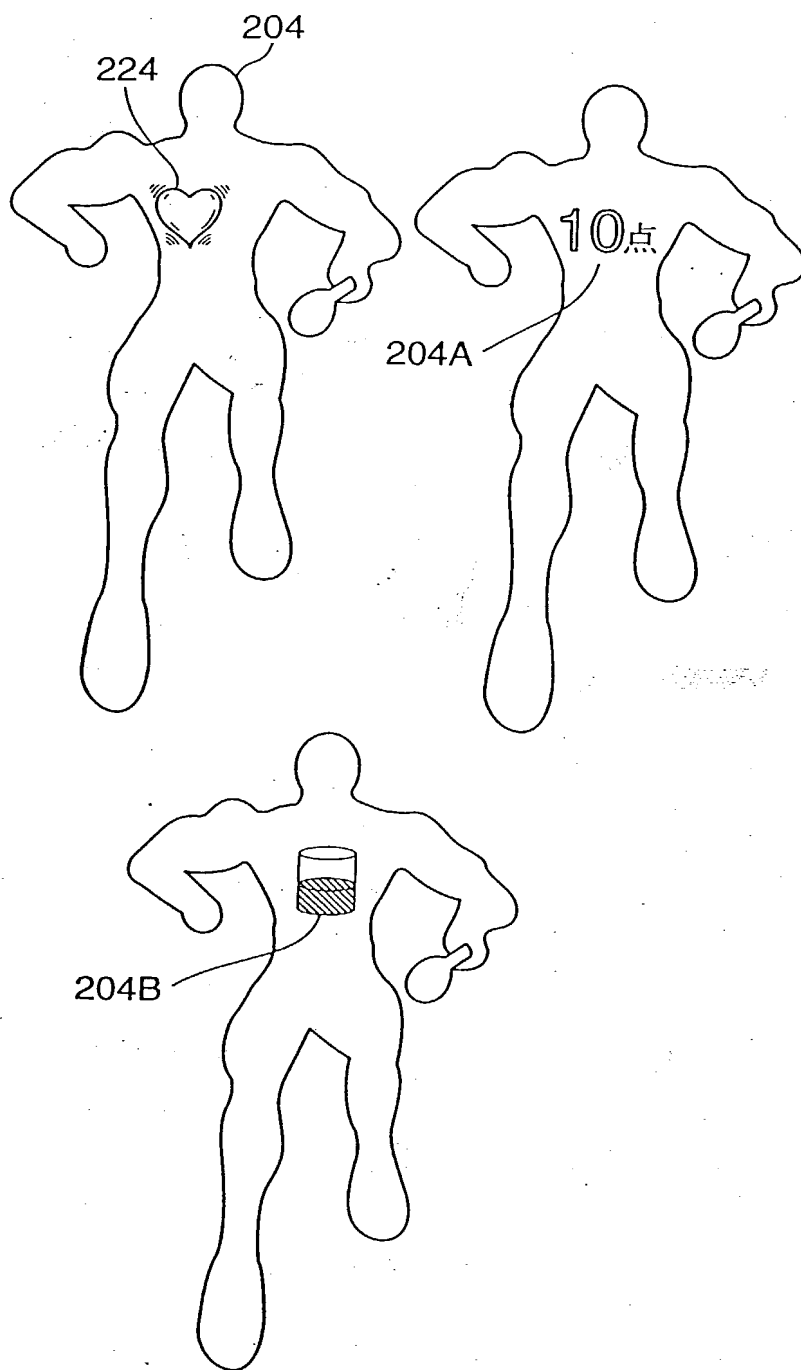


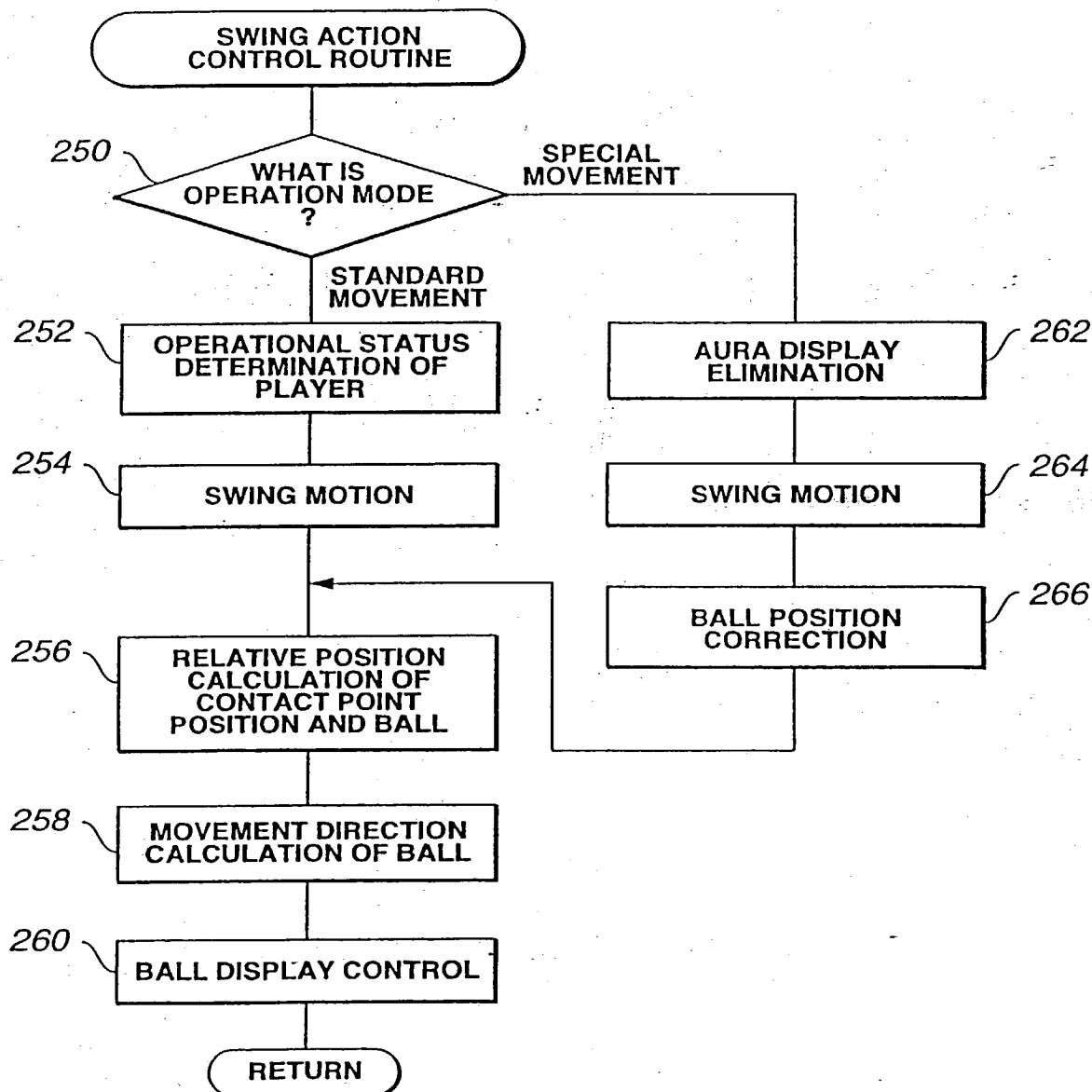
FIG. 6



```
graph TD
    226[MOVEMENT MODE DISTINCTION UNIT] --> 228[FUNCTION SELECTING UNIT]
    228 --> 230[STANDARD OPERATIONAL STATUS DETERMINATION]
    228 --> 236[LOCK-ON SELECTION UNIT]
    230 --> 232[RELATIVE POSITION CONTROL UNIT OF CONTACT POINT AND BALL]
    232 --> 234[PROCESSING EXECUTION UNIT]
    236 --> 238[SPECIAL OPERATIONAL STATUS DETERMINATION]
    238 --> 240[RELATIVE POSITION CORRECTION UNIT OF CONTACT POINT AND BALL]
    240 --> 242[PROCESSING EXECUTION UNIT]
    234 --> 242
```

The flowchart illustrates the control system for a contact point control unit and ball. It consists of two main vertical paths. The left path starts with the **MOVEMENT MODE DISTINCTION UNIT** (226), which connects to the **FUNCTION SELECTING UNIT** (228). From 228, the flow goes to the **STANDARD OPERATIONAL STATUS DETERMINATION** (230) and then to the **RELATIVE POSITION CONTROL UNIT OF CONTACT POINT AND BALL** (232), which finally leads to the **PROCESSING EXECUTION UNIT** (234). The right path starts with the **LOCK-ON SELECTION UNIT** (236), which connects to the **SPECIAL OPERATIONAL STATUS DETERMINATION** (238). From 238, the flow goes to the **RELATIVE POSITION CORRECTION UNIT OF CONTACT POINT AND BALL** (240), which finally leads to the **PROCESSING EXECUTION UNIT** (242). An **OPERATIONAL SIGNAL** is shown as an input to the **STANDARD OPERATIONAL STATUS DETERMINATION** (230) and the **SPECIAL OPERATIONAL STATUS DETERMINATION** (238). There is also a direct connection from the **FUNCTION SELECTING UNIT** (228) to the **LOCK-ON SELECTION UNIT** (236).

FIG.8



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FIG. 9

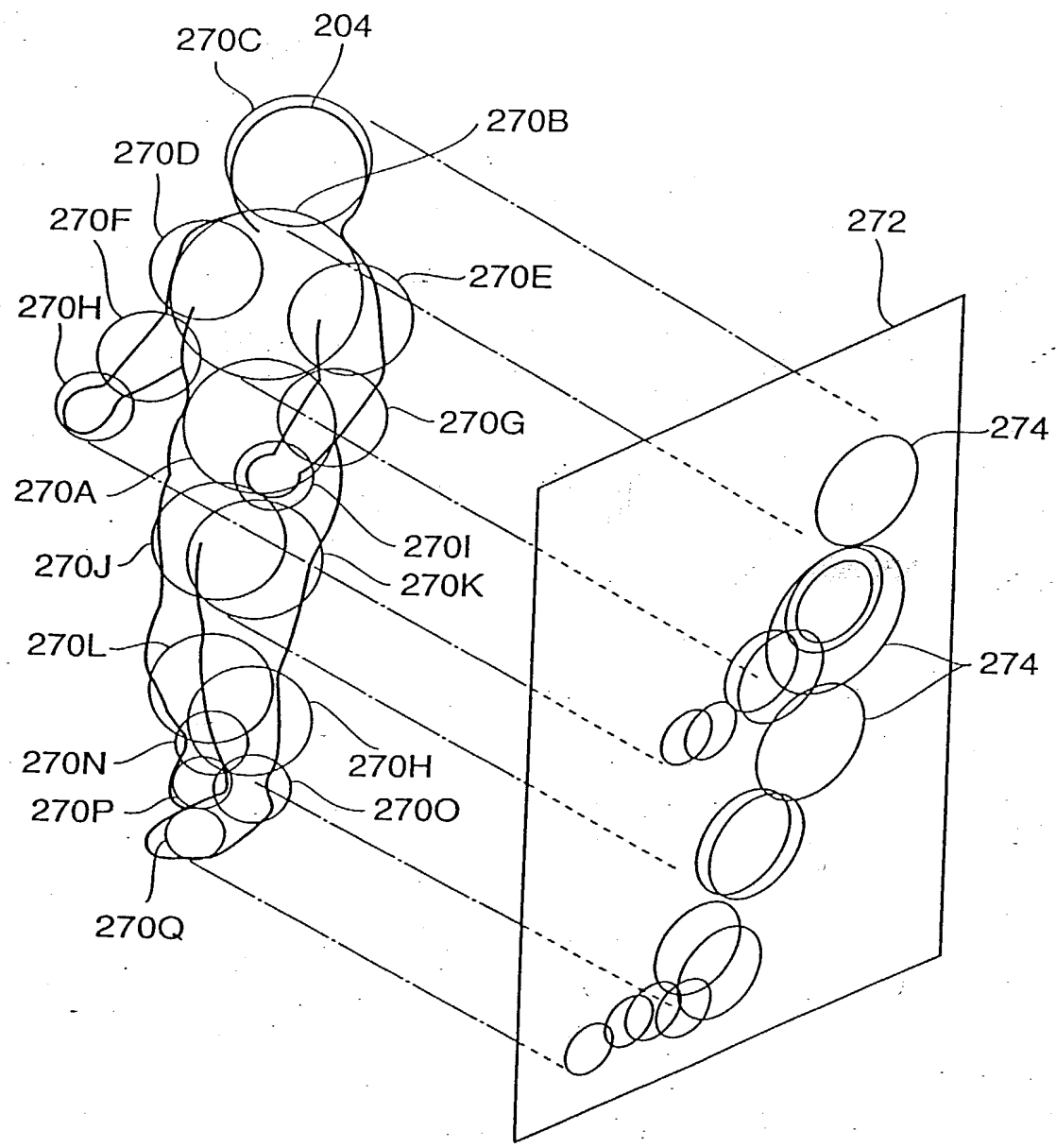


FIG. 10

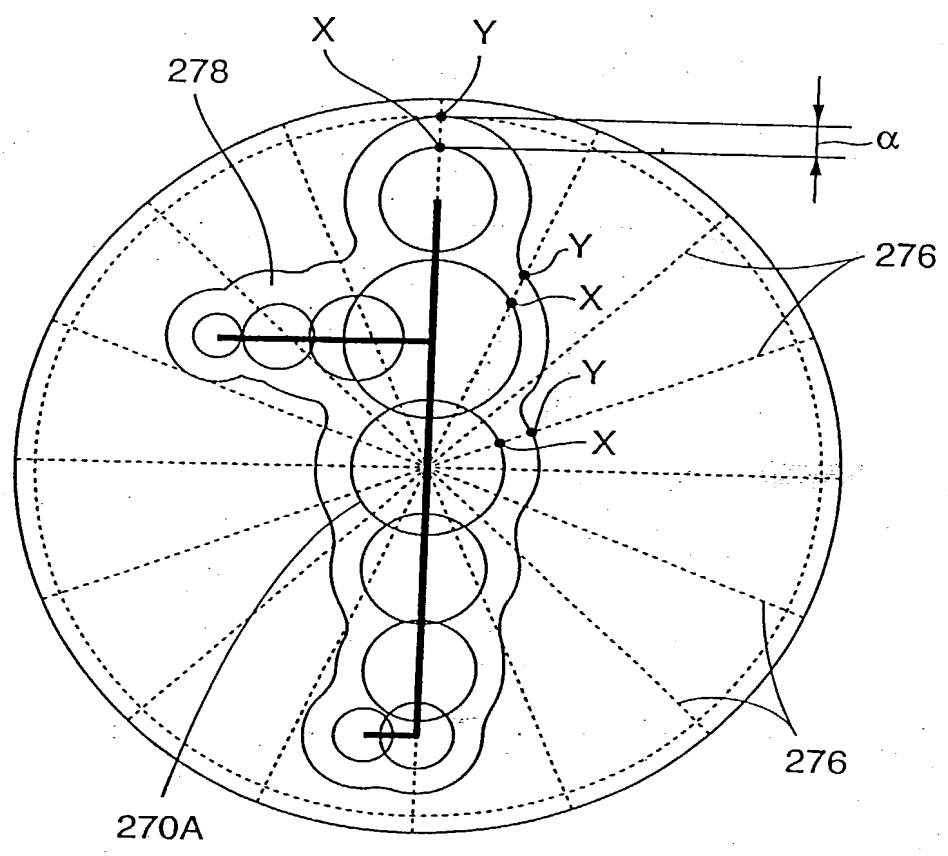


FIG.11

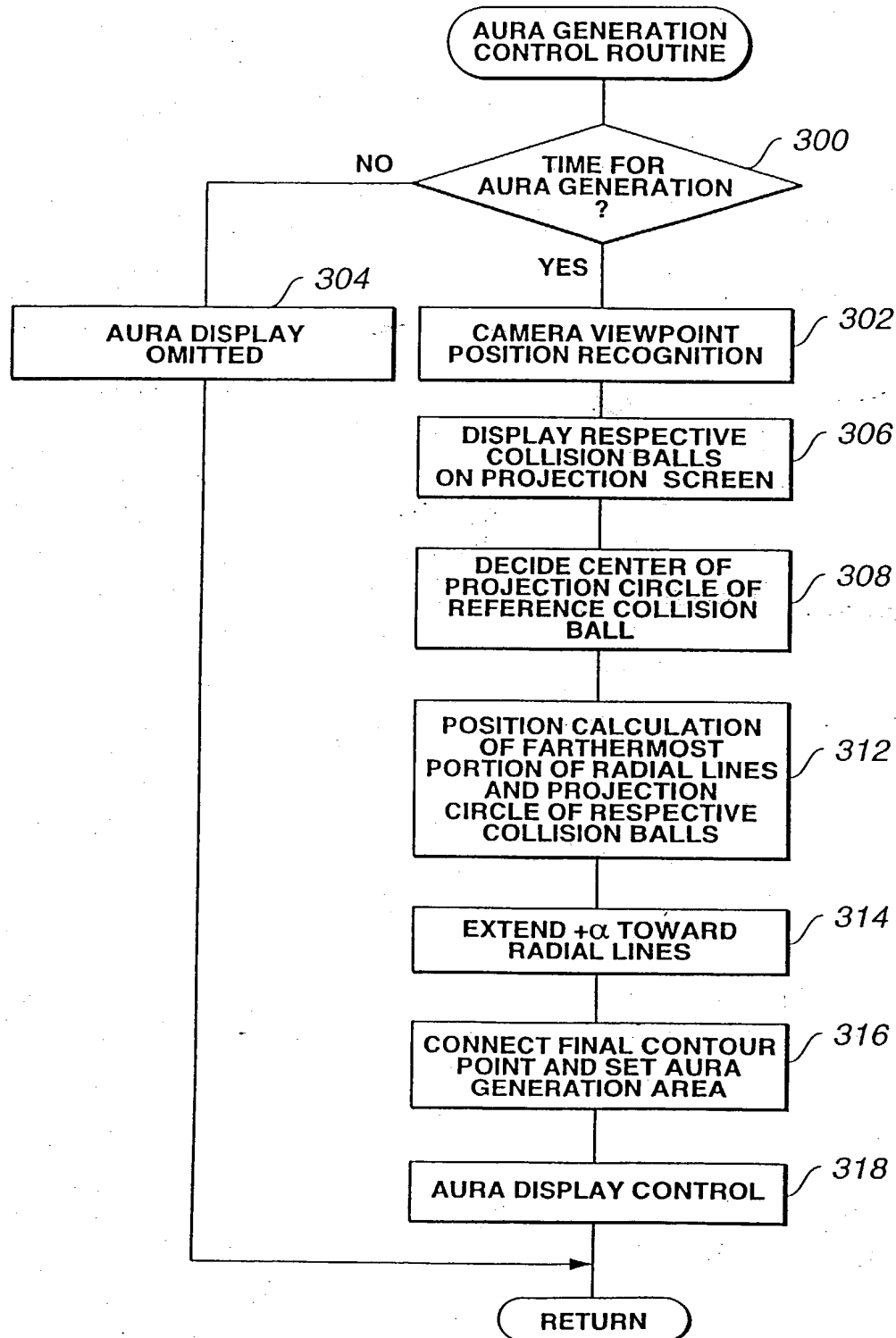
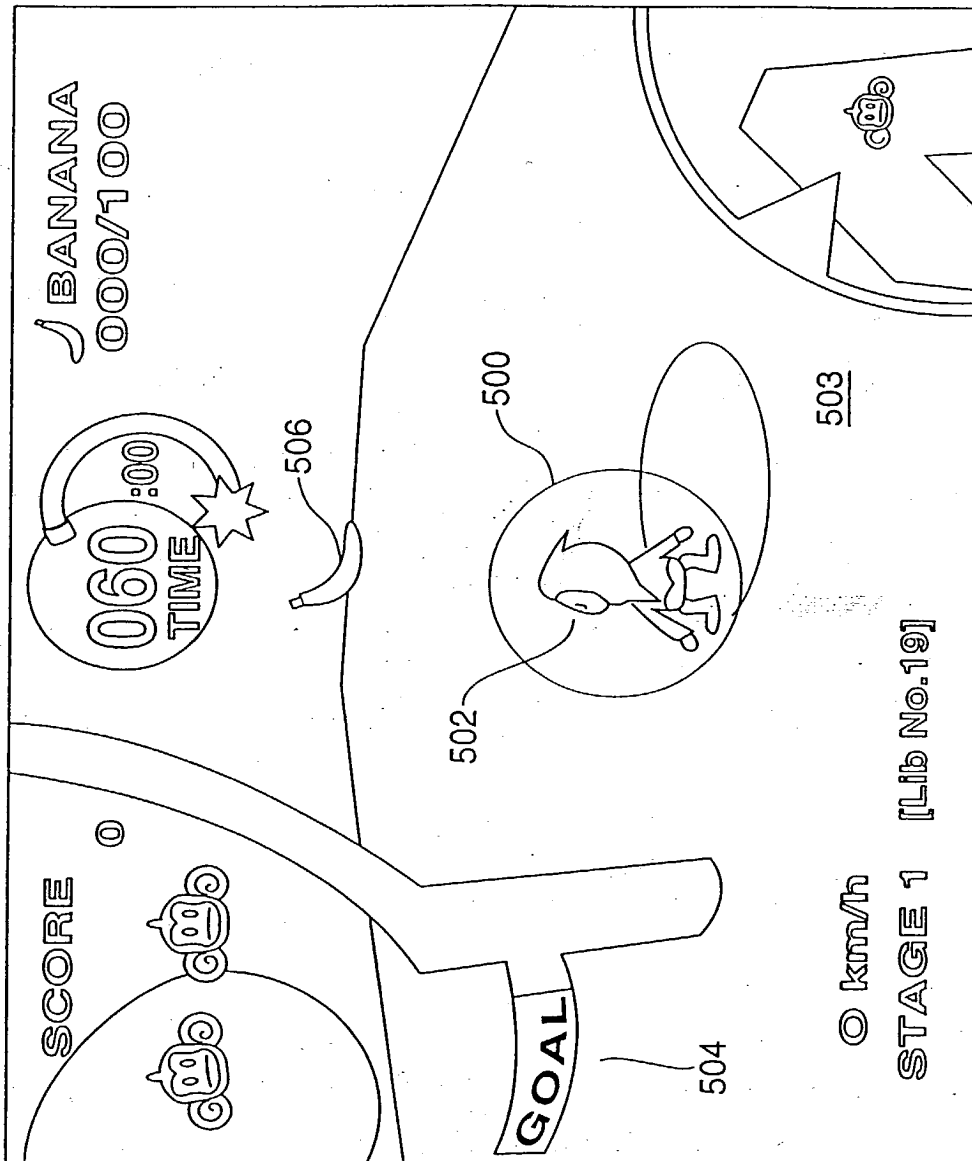
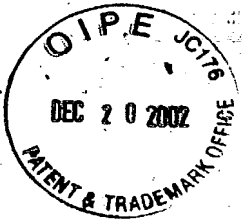


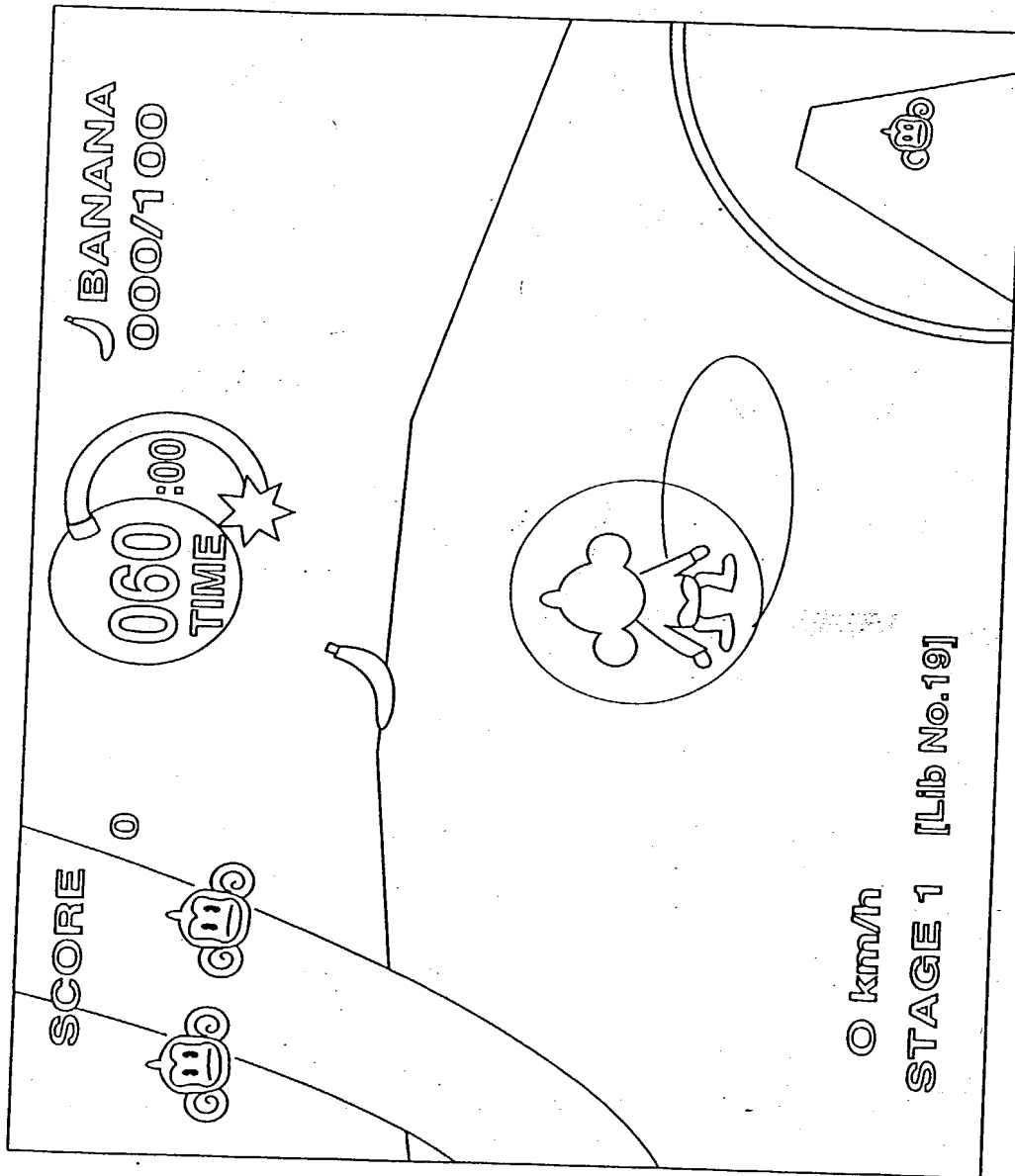
FIG. 12





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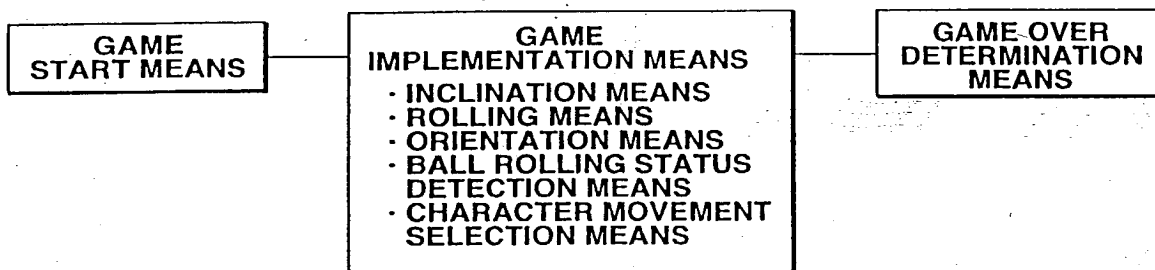
FIG. 13





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FIG.14





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FIG.15

